

**Serial No. Not Yet Assigned**

**Atty. Doc. No. 2001P07021WOUS**

**Amendments to the Abstract:**

In the English translation document, please add the section heading at page 11 line 1, as follows:

--ABSTRACT--

Please amend the paragraph of the English translation document at page 11 line 1, after the newly added ABSTRACT, as follows:

The invention relates to a method for monitoring at least one measuring signal, in particular for use in automation technology, production automation and process automation. Said method automatically determines and establishes an optimal time interval between measuring periods, by means of the course of a measuring signal. According to the invention, a computer system cyclically determines a characteristic value of the measuring signal in measuring periods, which are separated by a time interval, whereby a priority is automatically defined, said priority is assigned to the measuring signal and the time interval between the measuring periods is defined in accordance with the priority.